	09/783,135	CHOI ET AL.	O
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	Examiner	Art Unit	
	Joseph P. Hirl	2121	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS (cerewith (or previously mailed), a Notice of Allowance (PTOL-85) of OTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHT the Office or upon petition by the applicant. See 37 CFR 1.313 and the Office of Upon Petition by the applicant.	OR REMAINS) CLOSED in or other appropriate community of the GHTS. This application is s	n this application. If not included unication will be mailed in due co	urse. THIS
This communication is responsive to <u>September 16, 2004</u> .			
\boxtimes The allowed claim(s) is/are <u>2-16</u> .			
☐ The drawings filed on 15 February 2001 are accepted by the	e Examiner.		
 Acknowledgment is made of a claim for foreign priority und a)		or (f).	
2. Certified copies of the priority documents have I	been received in Applicatio	n No	
Copies of the certified copies of the priority docu	uments have been received	d in this national stage application	n from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONMETHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	f this communication to file ENT of this application.	a reply complying with the requi	rements
A SUBSTITUTE OATH OR DECLARATION must be submitted informal patent application (PTO-152) which gives	ted. Note the attached EXA reason(s) why the oath or	AMINER'S AMENDMENT or NOT declaration is deficient.	TICE OF
CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) including changes required by the Notice of Draftsperso	n's Patent Drawing Reviev	v (PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the	ne drawings in the front (not the ba	ick) of
DEPOSIT OF and/or INFORMATION about the deposit			a tha
attached Examiner's comment regarding REQUIREMENT F	OR THE DEPOSIT OF BIO	DLOGICAL MATERIAL.	e ine
tachment(s)	_		
☐ Notice of References Cited (PTO-892)☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	<u> </u>	formal Patent Application (PTO-1	52)
	Paper No./	ummary (PTO-413), Mail Date	
☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date), 7. Examiner's	Amendment/Comment	
☐ Examiner's Comment Regarding Requirement for Deposit	8. 🗌 Examiner's	Statement of Reasons for Allowa	ınce
of Biological Material	9. 🗌 Other	_•	
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Application/Control Number: 09/783,135 Page 2

Art Unit: 2121

Examiner's Amendment/Reasons for Allowance

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

In the Claims

- 2. Insert "computer-implemented" between "A" and "Method in the preamble of claim 2.
- 3. Authorization for this examiner's amendment was given in a telephone interview with applicant's attorney, Seok-Won Stuart Lee on December 7, 2004.

Reasons for Allowance

- Claims 2-16 are allowed.
- 5. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fails to teach the claims invention of indexing feature vectors within the feature vector data space by adaptively forming approximation of the feature vectors on the basis of statistical distribution of feature vector data within the feature vector data space.

The closest prior art (Hill, U.S. Patent 5,713,016) teaches a process and system for determining relevance which includes a first feature vector, a second feature vector and an indexing parameter. Hill teaches a log likelihood ratio that the first feature vector

is relevant to the second feature vector is developed using the related assigned distributions of the vectors. The log likelihood ratio is stored as representing relevance between the first feature vector and the second feature vector. Hill does not teach adaptively forming feature vector space related to the feature vectors to develop a related index. The claimed invention will improve performance when indexing feature vectors within vector space having high-dimensionality and lacking uniform distribution.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence Information

6. Any inquiry concerning this information or related to the subject disclosure should be directed to the Examiner, Joseph P. Hirl, whose telephone number is (571) 272-3685. The Examiner can be reached on Monday – Thursday from 6:00 a.m. to 4:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Anthony Knight can be reached at (571) 272-3687.

Any response to this office action should be mailed to:

Commissioner of Patents and Trademarks,

Washington, D. C. 20231;

or faxed to:

(703) 872-9306 (for formal communications intended for entry);

or faxed to:

(571) 273-3685 (for informal or draft communications with notation of

"Proposed" or "Draft" for the desk of the Examiner).

Joseph P. Hirl

December 8, 2004

Anthony Knight

Supervisory Patent Examiner

Group 3600